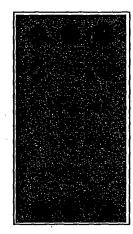
LexA-MLH1 / B42-f5
LexA / B42-f5
LexA-myc / B42-f5
LexA-bicoid / B42-f5
LexA-K-rev1 / B42-f5
LexA-K-rev-1 / Krit1





Leu-

X-gal

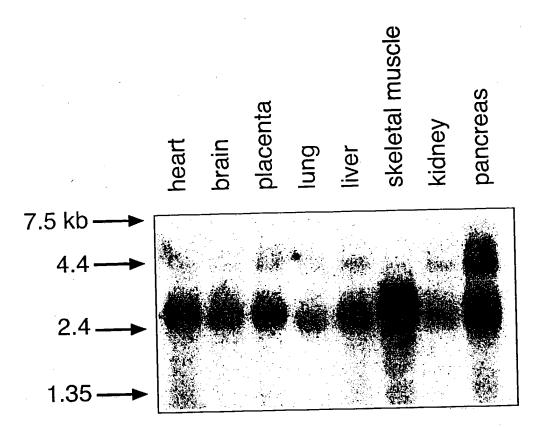


Fig. 2

	GGGGGCGTCTGGGGCGCTTTCGCAACATTCAGACCTCGGTTGCAGCCCGGTGAGCTGAAGAGGTTTCACATCTTTACTTCGGCCCC	-
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	MGTTGLESLSLGD	
181	CCCGGAGCTGCCCCCACCGTCACCTCTAGTGAGCGCCTAGTCCCAGACCGCCGAATGACCTCCGCAAAGAAGATGTTGCTATGGAATT	270
	R G A A P T V T S S E R L V P D P P N D L R K E D V A M E L	
271	GAAAGAGTGGGAGAAGATGAGGAACAAATGATGATAAAAAGAAGCAGTGAATGTAATCCCTTGCTACAAGAACCCATCGCTTCTGCTCAC	360
	ERVGEDEEQMMIKRSSECNPLLQEPIASAQ	
361	TTTGGTGCTACTGCAGGAACAGAATGCCGTAAGTCTGTCCCATGTGGGAAGGATGGGAAAGAGTTGTGAAGCAAAGGTTATTTGGGAAGACAGC	450
	F G A T A G T E C R K S V P C G W E R V V K Q R L F G K T A	
451	GGAAGATTTGATGTGTACTTTATCAGCCCACAAGGACTGAAGTTCAGATCCAAAAGTTCACTTGCTAATTATCTTCACAAAAATGGAGAC	540
	G R F D V Y F I S P Q G L K F R S K S S L A N Y L H K N G E	
541	ACTICICITAAGCCAGAAGATIIIGATIITIACIGTACTITICIAAAAGGGGTATCAAGICAAGATATAAAGACTGCAGCAIGGCAGCCCCTC	630
	T S L K P E D F D F T V L S K R G I K S R Y K D C S M A A L	
63 T	ACATCCCATCTACAAAACCAAAGTAACAATTCAAACTGGAACCTCAGGACCCGAAGCAAGTGCAAAAAGGATGTGTTTTATGCCGCCAAG	720
	T S H L Q N Q S N N S N W N L R T R S K C K K D V F M P P S	
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721	AGTAGTTCAGAGTTGCAGGAGGAGCAGGAGGACTCTCTAACTTTACTTCCACTCATTTTGCTTTTTGAAAGAAGATGAGGGTGTTGATGATGATGATGAT	810
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331	CTTGATAGAACTGTCTGCATTTCTGATGCTGGAGCATGTGGTGAGGACCCTCAGTGTAGAAGAAAAACAGCCTTGTAAAAAAAA	. 1080
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001	GAAAGATCATTGAGITCAGGATCAAATTTTTGTTCTGAACAAAAAACTTCTGGCATCATAAACAAATTTTGTTCAGCCAAAGACTCAGAA	1170
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171	CACAACGAGAAGTATGAGGATACCTTTTTTAGAATCTGAAGAAATCGGAACAAAAGTAGAAGTTGTGGAAAGGAAAGAACATTTGCATACT	1260
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	HNEKYEDTFLESEEIGTKVEVVERKEHLHT	
261	GACATTITIAAAACGTGGCTCTGAAATGGACAACTACTCACCAACCAGGAAAGACTTCACTGGTGAGAAAAATATTTCAAGAAGATAC	1350
201	D I L K R G S E M D N N C S P T R K D F T G E K I F Q E D T	1330
	DIDAAGSENDAACSFIAADFIGEAIFQEDI	
351	ATCCCACGAACACAGATAGAAAGAAGGAAAACAAGCCTGTATTTTTCCAGCAAATATAACAAAGAAGCTCTTAGCCCCCCACGACGTAAA	1440
	I P R T Q I E R R K T S L Y F S S K Y N K E A L S P P R R K	. 1110
441	GCCTTTAAGAAATGGACACCTCCTCGGTCACCTTTTAATCTCGTTCAAGAAACACTTTTTCATGATCCATGGAAGCTTCTCATCGCTACT	1530
	A F K K W T P P R S P F N L V Q E T L F H D P W K L L I A T	
531	ATATTTCTCAATCGGACCTCAGGCAAAATGGCAATACCTGTGCTTTGGAAGTTTCTGGAGAAGTATCCTTCAGCTGAGGTAGCAAGAACC	1620
	I F L N R T S G K M A I P V L W K F L E K Y P S A E V A R T	
621	GCAGACTIGGAGAGATGTCTCAGAACTTCTTAAACCTCTTGGTCTCTACGATCTTCGGGCAAAAACCATTGTCAAGTTCTCAGATGAATAC	1710
	A D W R D V S E L L K P L G L Y D L R A K T I V K F S D E Y	
711	CTGACAAAGCAGTGGAAGTATCCAATTGAGCTTCATGGGATTGGTAAATATGGCAACGACTCTTACCGAATTTTTTTGTGTCAATGAGTGG	1800
	LTKQWKYPIELHGIGKYGNDSYRIFCVNEW	
801	ASCACCTCACACTCTOAAGACAACTCTACAAACTCTCCACTACTCACACTAAAAAAATCATAAAAATCATAAAAATCATAAAAATCATAAAAATCATAAAAATCATAAAAATCATAAAAATCATAAAAATCATAAAAAA	1890
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891	CASCTTTCAAGCTCATCTGTTATGCATAGCTTTGCACTTCAAAAAAGCTTAATTAA	1980
	TAATTAGCCCAACTAGAAGCCTAGTGTGTGTGTTTCTTAATGTGTGCCAATGGTGGATCTTTGCTACTGAATGTTTGAACATGTT	
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FGKTAGRFDV SGATCGRSDT

GMERVVKQRL GMKRREVFRK

KSVPC. LGP

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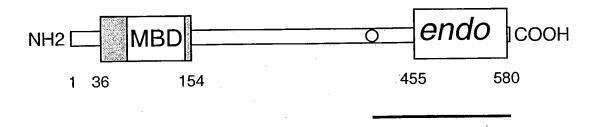
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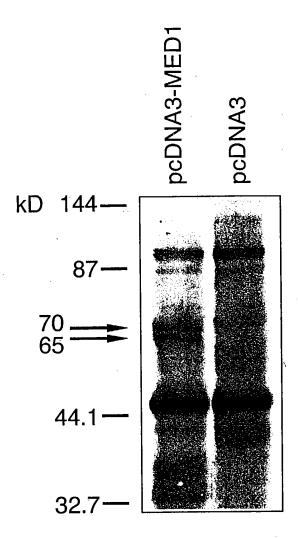
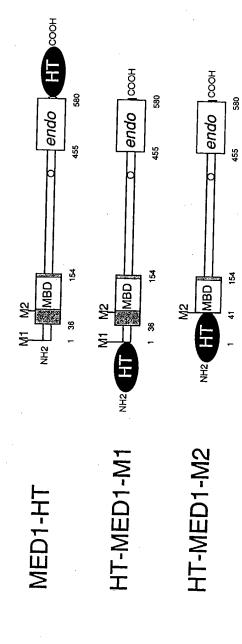


Fig. 6



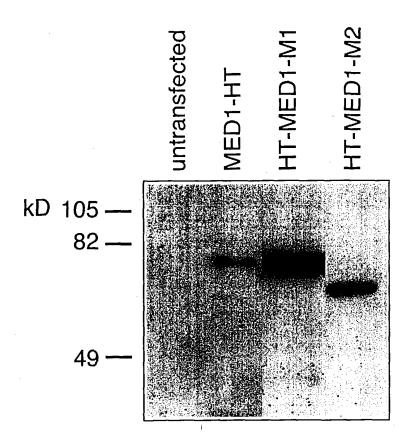


Fig. 7B

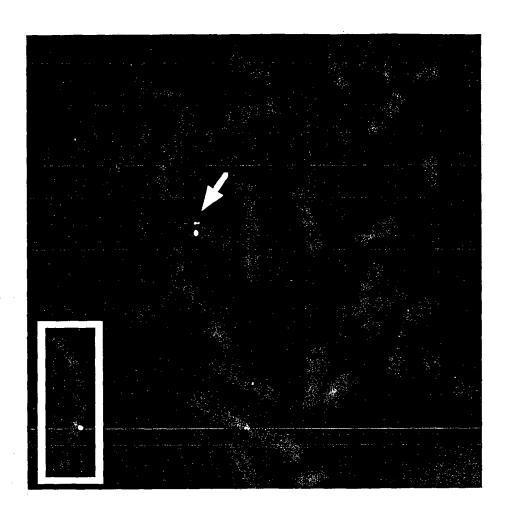
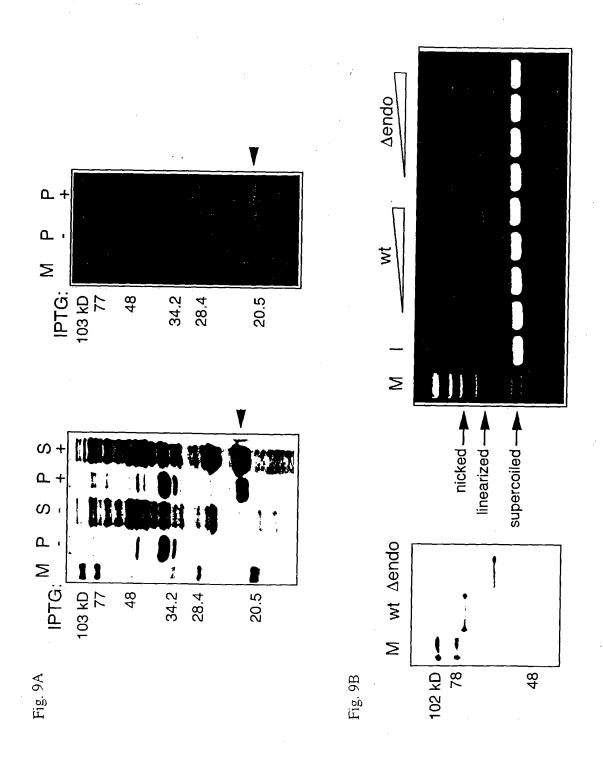


Fig. 8



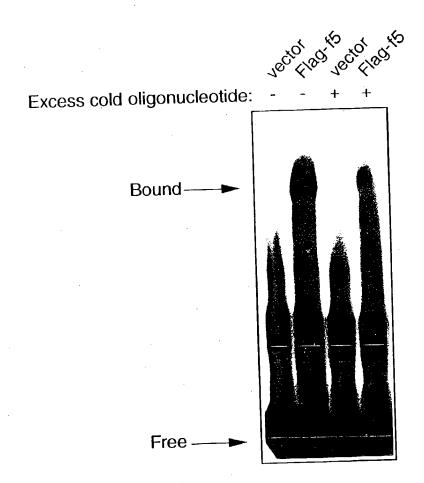


Fig. 10A

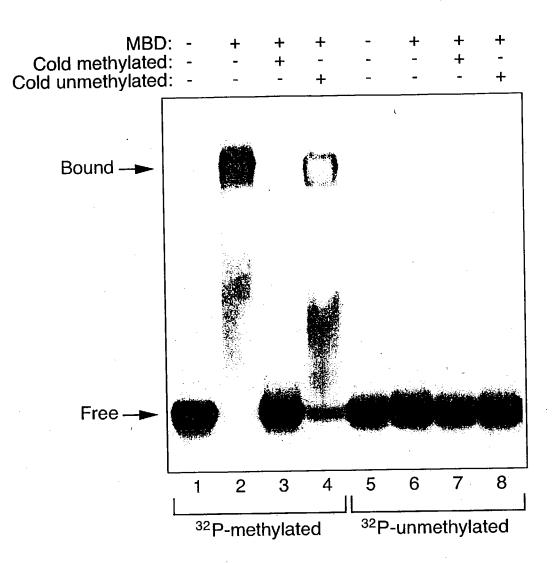
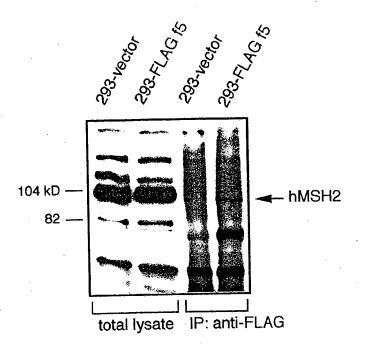
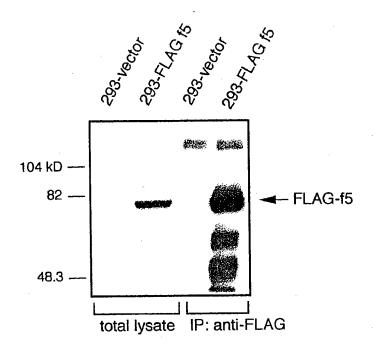


Fig. 10B



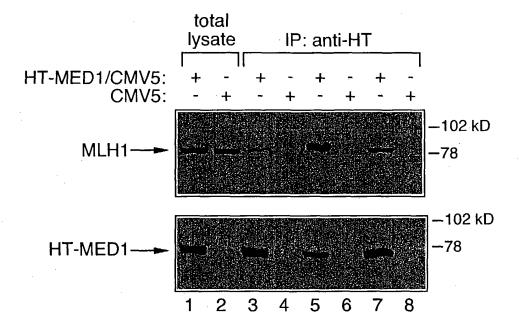
Western: anti-hMSH2

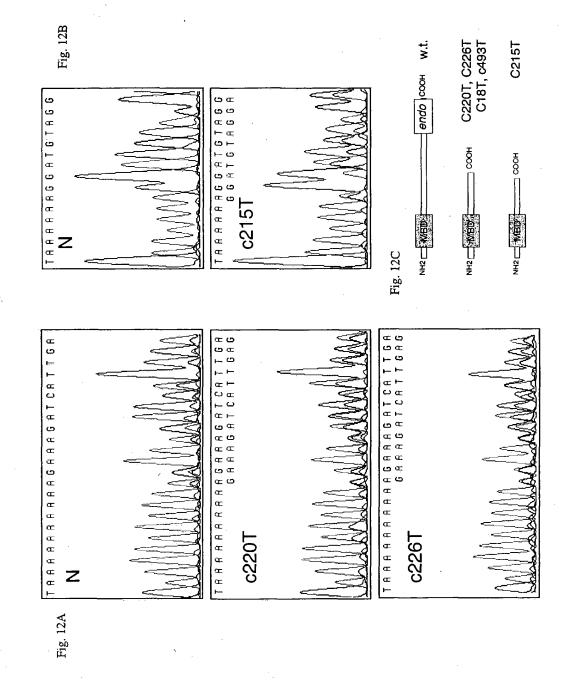
Fig. 11A



Western: anti-FLAG

Fig. 11B





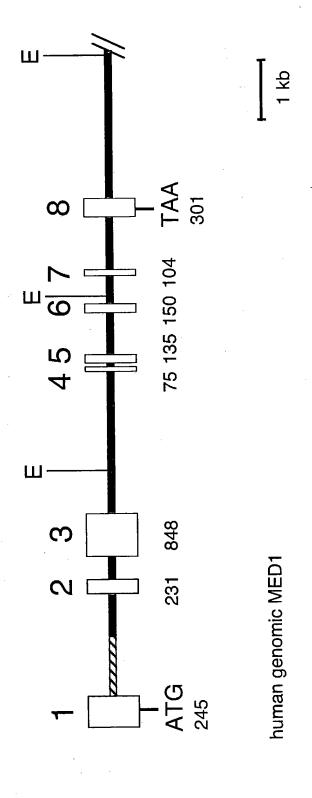


Fig. 13

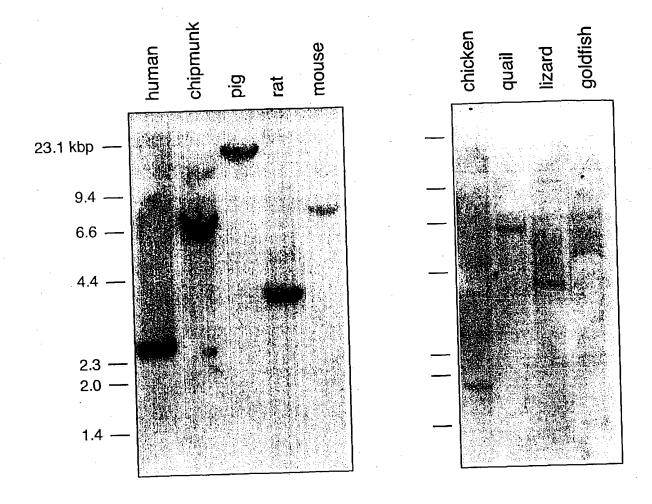


Fig. 14A

Fig. 14B

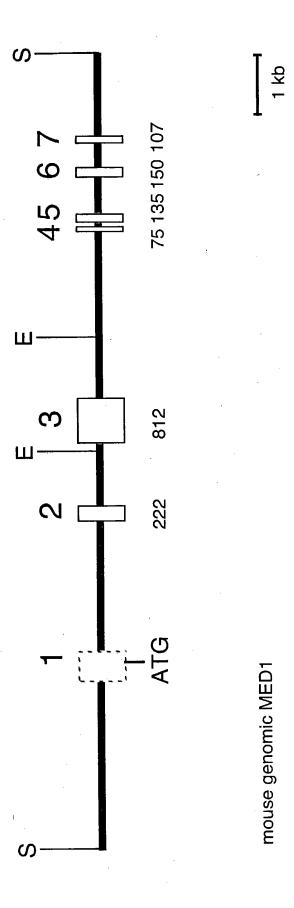


Fig. 15

CAAGGAAGAT ATTGCTGTTG GACTGGGAGG AGTGGGAGAA GATGGAAAGG 51 ACCTGGTGAT AAGCAGTGAG CGCAGCTCCC TTCTCCAAGA GCCCACTGCT 101 TCTACTCTGT CTAGTACTAC AGCGACAGAA GGCCACAAGC CTGTCCCGTG 151 TGGATGGGAA AGAGTTGTGA AGCAAAGGTT ATCTGGGAAA ACTGCAGGAA 201 AATTTGATGT ATACTTTATC AGCCCACAAG GATTGAAGTT CAGATCAAAA 251 CGTTCACTTG CTAATTATCT TCTCAAAAAT GGGGAGACTT TTCTTAAGCC 301 TGAAGATTTT AATTTTACTG TACTGCCGAA AGGGAGCATC AATCCCGGTT 351 ATAAAÇACCA AAGTTTGGCA GCTCTGACTT CCCTGCAGCC AAATGAAACT 401 GACGTTTCAA AGCAGAACCT CAAGACACGA AGCAAGTGGA AAACAGATGT 451 GTTGCCTCTG CCCAGTGGTA CTTCAGAGTC GCCAGAAAGC AGCGGACTGT 501 CTAACTCTAA CTCGGCTTGC TTGCTATTGA GAGAACATAG GGACATTCAG 551 GATGTTGACT CTGAGAAGAG GAGAAAGTCC AAAAGAAAGG TGACTGTTTT 601 GAAAGGAACT GCAAGTCAGA AAACCAAACA AAAGTGCAGG AAGAGTCTCT 651 TAGAGTCTAC TCAAAGAAAC AGAAAAAGAG CATCTGTGGT TCAGAAGGTG 701 GGTGCTGATC GCGAGCTGGT GCCACAGGAA AGTCAACTCA ACAGAACCCT 751 CTGCCCTGCA GATGCCTGTG CAAGGGAGAC TGTTGGCCTG GCTGGGGAAG 801 AAAAATCACC AAGCCCAGGA CTGGATCTTT GTTTCATACA AGTAACTTCT GGCACCACAA ACAAATTCCA TTCAACTGAA GCAGCAGGTG AAGCAAATCG 901 TGAGCAGACT TTTTTAGAAT CAGAGGAAAT CAGATCGAAG GGAGACAGAA 951 AGGGGGAGGC ACATTTGCAT ACTGGTGTTT TACAGGATGG CTCTGAAATG 1001 CCCAGCTGCT CACAAGCCAA GAAACACTTT ACTTCTGAGA CATTTCAAGA 1051 AGACAGCATC CCACGGACAC AAGTAGAAAA AAGGAAAACA AGCCTGTATT 1101 TTTCCAGCAA GTACAACAAA GAAGCTCTTA GCCCCCCAAG ACGCAAATCC 1151 TTCAAGAAAT GGACCCCTCC TCGGTCACCT TTTAATCTTG TTCAAGAAAT 1201 ACTTTTCCAT GACCCATGGA AGCTCCTCAT CGCGACTATA TTTCTCAATC 1251 GGACCTCAGG CAAGATGGCC ATCCCTGTGC TGTGGGAGTT TCTAGAGAAG 1301 TACCCTTCAG CTGAAGTGGC CCGAGCTGCC GACTGGAGGG ACGTGTCGGA

1351	GCTTCTCAAG	CCTCTTGGTC	TCTACGATCT	CCGTGCAAAA	ACCATTATCA
1401	AGTTCTCAGA	TGAATATCTG	ACAAAGCAGT	GGAGGTATCC	GATTGAGCTT
1451	CATGGGATTT	GGTTAAAATA	TGGCAACGAC	TCTACCGGAT	CTTTTGTGTC
1501	AATGAATGGA	ACAG			

mouse MED1 protein (upper sequence) x human MED1 protein (lower sequence)

1	KEDIAVGLGGVGEDGKDLVISSERSSLLQEPTAST.LSSTTATEGHKP	47
36	KEDVAMELERVGEDEEQMMIKRSSECNPLLQEPIASAQFGATAGTECRKS	85
48	VPCGWERVVKORLSGKTAGKFDVYFISPOGLKFRSKRSLANYLLKNGETF	97
86	VPCGWERVVKQRLFGKTAGRFDVYFISPQGLKFRSKSSLANYLHKNGETS	135
98	LKPEDFNFTVLPKGSINPGYKHQSLAALTSLQPNETDVSKQNLKTRSKWK	147
136	LKPEDFTTVLSKRGIKSRYKDCSMAALTSHLQNQSNNSNWNLRTRSKCK	185
148	TDVLPLPSGTSESPESSGLSNSNSACLLLREHRDIQDVDSEKRRKSKRKV	197
	KDVFMPPSSSSELQESRGLSNFTSTHLLLKEDEGVDDVNFRKVRKPKGKV	
198	TVLKGTASQKTKQKCRKSLLESTQRNRKRAS	228
236	TILKGIPIKKTKKGCRKSCSGFVQSDSKRESVCNKADAESEPVAQKSQLD	2,85
	•	
229	EDSIPRTQVEKRKTSLYFSSKYNKEALSPPRRKSF	263
386	CSPTRKDFTGEKIFQEDTIPRTQIERRKTSLYFSSKYNKEALSPPRRKAF	435
264	KKWTPPRSPFNLVQEILFHDPWKLLIATIFLNRTSGKMAIPVLWEFLELY	313
436		485
314	PSAEVARAADWRDVSELLKPLGLYDLRAKTIIKFSDEYLTKOWRYPIELH	363
486	PSAEVARTADWRDVSELLKPLGLYDLRAKTIVKFSDEYLTKQWKYPIELH	535
364	GIWLKYGNDSYRIFCVNEWKQ 384	

ggttttgttttccagCAAGGAAGATATTGCTGTTGGACTGGGAGGAGTG GGAGAAGATGGAAAGGACCTGGTGATAAGCAGTGAGCGCAGCTCCCTTCT CCAAGAGCCCACTGCTTCTACTCTGTCTAGTACTACAGCGACAGAAGGCC ACAAGCCTGTCCCGTGTGGATGGGAAAGAGTTGTGAAGCAAAGGTTATCT GGGAAAACTGCAGGAAAATTTGATGTATACTTTATCAGgtaagcatttag Gaaggaaaata

Fig. 18B

Exon 3

ctttttttttttccttttaagCCCACAAGGATTGAAGTTCAGATCAAAAC GTTCACTTGCTAATTATCTTCTCAAAAATGGGGAGACTTTTCTTAAGCCT GAAGATTTTAATTTTACTGTACTGCCGAAAGGGAGCATCAATCCCGGTTA TAAACACCAAAGTTTGGCAGCTCTGACTTCCCTGCAGCCAAATGAAACTG ACGTTTCAAAGCAGAACCTCAAGACACGAAGCAAGTGGAAAAACAGATGTG TTGCCTCTGCCCAGTGGTACTTCAGAGTCGCCAGAAAGCAGCGGACTGTC TAACTCTAACTCGGCTTGCTTGCTATTGAGAGAACATAGGGACATTCAGG ATGTTGACTCTGAGAAGAGGGAGAAAGTCCAAAAGAAAGGTGACTGTTTTG AAAGGAACTGCAAGTCAGAAAACCAAACAAAAGTGCAGGAAGAGTCTCTT AGAGTCTACTCAAAGAAACAGAAAAAAGAGCATCTGTGGTTCAGAAGGTGG GTGCTGATCGCGAGCTGGTGCCACAGGAAAGTCAACTCAACAGAACCCTC AAAATCACCAAGCCCAGGACTGGATCTTTGTTTCATACAAGTAACTTCTG GCACCACAAACAATTCCATTCAACTGAAGCAGCAGGTGAAGCAAATCGT GAGCAGACTTTTTTAGAATCAGAGGAAATCAGATCGAAGGGAGACAGAAA GGGGGAGGCACATTTGCATACTGGTGTTTTTACAGGATGGCTCTGAAATGC CCAGCTGCTCACAAGCCAAGAAACACTTTACTTCTGAGACATTTCAAGgt actcagtgcatgaaaa

Fig. 18C

Exon 4

gactataaactaattttgcttctc**ag**AAGACAGCATCCCACGGACACAAG
TAGAAAAAAGGAAAACAAGCCTGTATTTTTCCAGCAAGTACAACAAAGAA
G**gt**acccacctttccctaagc

Fig. 18D

Exon 5

Fig. 18E

Exon 6

tgtttatgctcccc**ag**GCAAGATGGCCATCCCTGTGCTGTGGGAGTTTCT AGAGAAGTACCCTTCAGCTGAAGTGGCCCGAGCTGCCGACTGGAGGGACG TGTCGGAGCTTCTCAAGCCTCTTGGTCTCTACGATCTCCGTGCAAAAACC ATTATCAAGTTCTCAG**gt**atgtccccagcccag

Fig. 18F

Exon 7

 ${\tt tggatgtgtatccctc} \textbf{ag} \textbf{ATGAATATCTGACAAAGCAGTGGAGGTATCCG} \\ \textbf{ATTGAGCTTCATGGGATTTGGTTAAAATATGGCAACGACTCTACCGGAT} \\ \textbf{CTTTTGTGTCAATGAATGGAACAG} \textbf{gt} \\ \textbf{agcccaccactggggcc} \\ \textbf{constant} \textbf{con$

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GAGGTTTCACATCTTACTCCGCCCCACACCCTGGGCGTTGCGGCGCTGGGCTCGTTGCTGCAGCCG
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acctttgacagagggtcggcanaaacctcgaagcccacgggtttagttactagggtctggagccca
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Fig. 19B

Exon 2

aatctgaaatgtggtccagttcttttaaaagtcccttctatttactagcagtaagtttccttt aatatcattttctagCCCACAAGGACTGAAGTTCAGATCCAAAAGTTCACTTGCTAATTATCTTCA CAAAAATGGAGAGACTTCTCTTAAGCCAGAAGATTTTGATTTTACTGTACTTTCTAAAAGGGGTAT CAAGTCAAGATATAAAGACTGCAGCATGGCAGCCCTGACATCCCATCTACAAAACCAAAGTAACAA TTCAAACTGGAACCTCAGGACCCGAAGCAAGTGCAAAAAGGATGTTTTATGCCGCCAAGTAGTAG TTCAGAGTTGCAGGAGAGCAGAGGACTCTCTAACTTTACTTCCACTCATTTGCTTTTGAAAGAAGA TGAGGGTGTTGATGATGTTAACTTCAGAAAGGTTAGAAAGCCCCAAAGGAAAGGTGACTATTTTGAA AGGAATCCCAATTAAGAAAACTAAAAAGGATGTAGGAAGAGCTGTTCAGGTTTTGTTCAAAGTGA TAGCAAAAGANAATCTGTGTGTAATAAAGCAGATGCTGAAAGTGAACCTGTTGCACAAAAAAGTCA GCTTGATAGAACTGTCTGCATTTCTGATGCTGGAGCATGTGGTGAGACCCTCAGTGTGAGCAGTGA AGAAAACNGCCTTGTAAAAAAAAAAAGAAGATCATTGAGTTCAGGATCAAATTTTTGTTCTGAACA AAAAACTTCTGGCATCATAAACAAATTTTGTTCAGCCAAAGACTCAGAACACAACGAGAAGTATGA GGATACCTTTTTAGAATCTGAAGAAATCGGAACAAAAGTAGAAGTTGTGGAAAGGAAAGAACATTT CACTGgtgagaaaatatttcaaggtatccagtgctttcagcactattaaacattagtgatgaaaa atttatatgctgcatctgtatcgtgccatac

Please note: at the end of exon 3, two alternative splice donor sites are present (see Sequence Variations, page 40 of the application).

Fig. 19D

Exon 4 and Exon 5

Fig. 19F

Exon 7

ctttagaagctgacctgataatgtgggatgttgtattcttcagATGAATACCTGACAAAGCAG
TGGAAGTATCCAATTGAGCTTCATGGGATTGGTAAATATGGCAACGACTCTTACCGAATTTTTTGT
GTCAATGAGTGGAAGCAGgtgaggctcactcccatccataattcagcacatttggttcacgcacattatggttaagacnatttattggggatacaaatgctattacagtcacaa
caattgtgttcctggctgcggggaagcgngtggcatgtgggtttttggggtttttgatcagtaggcg
ctcccagg

Fig. 19G

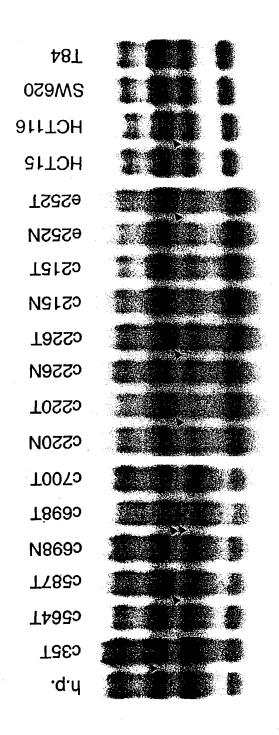
Exon 8

Please note: asterisk indicates the poly(A) addition site.

Fig. 19H

exon and the intron between exon Complete sequence of

tggtcatcctggcagctggtgggtggcctggtatgctgcccactcagcttgagactcacctcatg cagtaccttgtaaattgtgtgagattaccttaatataaggtataacttaaaatattcatgaatccc aggaggttaaaggttataacttttaggtatggtatcgtaatgtactgtcccccagcaaacatttaa aaagccaattttaaaaaatgtatttctgactaagttacattaaggtctctgcctctgtatcttatg 3GAAGCAGgtgaggctcactcccatccataattcagcacatttggtctctgaggcaaaataagtcc getgeggggaagegagtggeatgtggggttttgggggtttttgateagtaagegeteeeaagteeaca aagaccagtccagcgggggggcctctgactcatctccagtggtttgtcacctctggccctgttcct gtcattccctatttgtgtgctatctctaagcctgacgtggttttcctcctgtcaaaagtacaccac tacaggaaagcaggaaggtttgggccttgcaatgtatgcatattgggtttctcttagtggtctcag actacgtttgtggtgactgggtcctgcttcagccctgttgaatatgcccagcctgtggcatgctgg cattcagccagtaggtctggccaagcctgaactgaaggaccatggtcctatcccagcttcatcaca gcaatccattgtgacctgagaatccatttaacctctcggtctagaacctccttctggaaagtgagg tattaatacttgactcaatgttatcgccaccccacattctaagtcatggttgagtagtaatttgga tttettecagGTGCACCC



c64T c54T c215N c215T

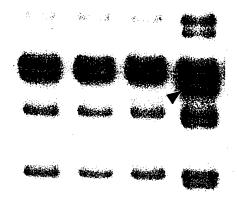
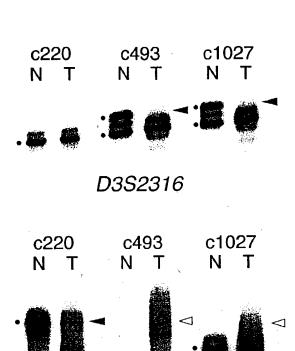
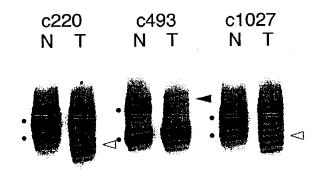


Fig. 20B



D3S3606

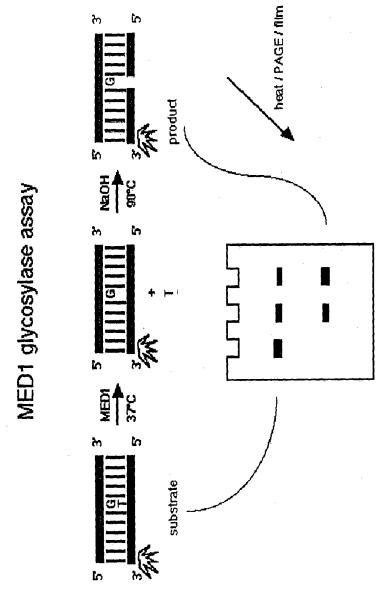


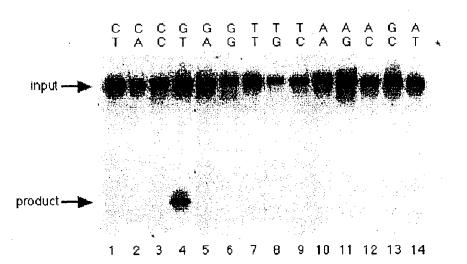
D3S1290

			c18	c220	c493	c1027	*8695	c1077
	Marker:	Location:						
	D3S1589	143.096 Mb						
	D3S3584	143.113						
	D3S2316	143.211						
MED1 ►	D3S3606	143.211						
WILDI	D3S1587	143.643						
	D3S1290	143.960				\boxtimes		
	D3S1292	144.305						
	D3S3657	144.920		2	\boxtimes	\boxtimes		
	D3S1664	146.211						
	D3S1615	147.000						
	D3S3554	150.210						
				ret	ention	of het	erozy	gosity
				LC	Н			
				un	inform	ative		
				∑ мѕ	61			
				uni	inform	ative/N	MSI	

Fig. 20D

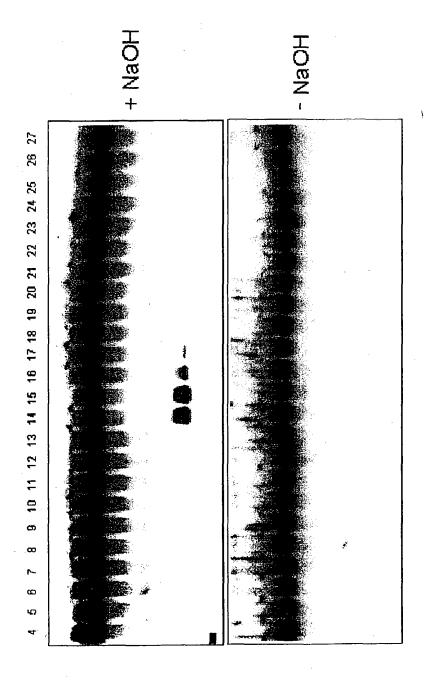
Fig. 21





 \star The asterisk indicates that the bottom oligonucleotide strand is radioactively labelled





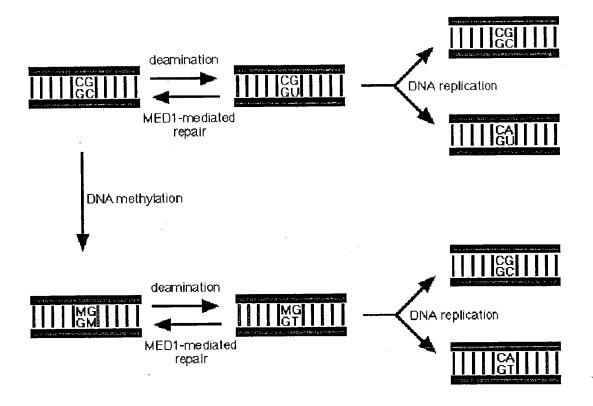
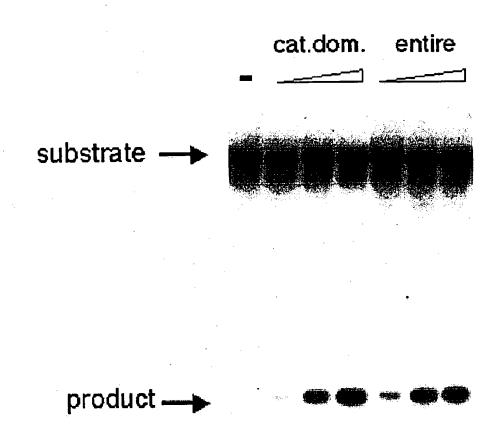


Fig. 24

GG AG TG CG MG T T T T T







*The asterisk indicates that the bottom oligonucleotide strand is radioactively labelled

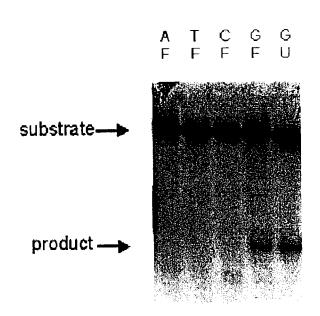


Fig. 28

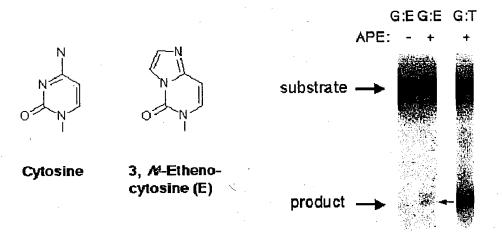
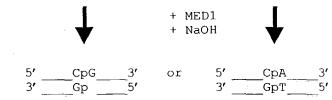


Fig. 29

1)	Denature DNA	A fragments	and mix	with CT-	SNP probe	e in order to generate heteroduple:	K
5 ′ 3 ′	CpG GpC	_3' _	> 5'	CpG Gp T	3' 5'	heteroduplex with G:T mismatch	
	allele 1						
	or .						
5 ′ 3 ′	CpA GpT	_3′ _5′ →	5'	CpA Gp T	3′ 5′	homoduplex	
	allele 2					`	
	+						
3 ′	GpT	_5′					

2) Incubate annealed molecules with recombinant MED1 followed by NaOH in order to cleave heteroduplex



cleaved heteroduplex uncleaved homoduplex

CT-SNP probe

3) Separate fragments of the cleaved strand by standard techniques electrophoresis)